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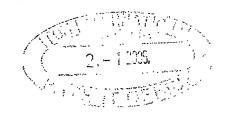
FOR FURTHER

PATENT COOPERATION TREATY PCT



(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference



see Form PCT/ISA/220

RU5214PCT	ACTION	as wei	as, where applicable, item 5 below.			
International application No.	International filing date(day/n	nonth/year)	(Earliest) Priority Date (day/month/year)			
PCT/JP2005/021501	17.11.200	5	22.11.2004			
Applicant RICOH COMPANY, LTD.						
This international search report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau. This international search report consists of a total of3 sheets.						
It is also accompanied by a co	py of each prior art document ci	ed in this repo	ort.			
Basis of the report a. With regard to the language, the international search was carried out on the basis of:						
the international application in the language in which it was filed						
a translation of the international application into , which is the language of a translation furnished for the purposes of international search (Rules 12.3(a) and 23.1(b))						
b. [With regard to any nucleotide and/or amino acid sequence disclosed in the international application, see Box No. I.						
2. Certain claims were found unsearchable (see Box No. II)						
3. Unity of invention is lacking	g (see Box No. III)					
4. With regard to the title,						
the text is approved as sub	mitted by the applicant					
the text has been establish	ed by this Authority to read as	follows:				
			•			
5. With regard to the abstract,			·			
the text is approved as subm	itted by the applicant					
the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box No. IV. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority						
6. With regard to the drawings,						
a. the figure of the drawings to be p	published with the abstract is	Figure No	4			
as suggested by the ag	pplicant		·			
as selected by this Au	thority, because the applicant fai	led to suggest	a figure			
	thority, because this figure better	characterizes	the invention			
b. none of the figures is to be	published with the abstract					

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INTERNATIONALSEARCHREPORT

International application No. PCT/JP2005/021501

CLASSIFICATION OF SUBJECT MATTER

Int.Cl. G11B7/125(2006.01), G11B7/095(2006.01), G11B7/135(2006.01)

According to International Patent Classification (IPC) or to both national classification and IPC

FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

Int.Cl. G11B7/08-7/22

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Published examined utility model applications of Japan 1922-1996 Published unexamined utility model applications of Japan 1971-2006 Registered utility model specifications of Japan 1996-2006 Published registered utility model applications of Japan 1994-2006

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

Category*	Citation of document, with indication, where appropriate, of the relevant passages	assages Relevant to claim No	
Y A	JP 2004-103093 A (RICOH COMPANY, LTD.) 2004.04.02, Paragraph numbers 0034,0044, Fig 9 (Family: none)	1,3-4,21,23- 24,37,40 2,22 5-20,25-36,3 8-39,41-42	
X Y A	JP 2003-317298 A (ASAHI GLASS COMPANY, LIMITED) 2003.11.07, Paragraph numbers 0023,0043-0045, Figs 1-3,6 (Family: none)	1,3-4,21,23- 24,37,40 2,22 5-20,25-36,3 8-39,41-42	

区	Further documents are listed in the continuation of Box C.	<u></u>	See patent family annex.	
* "A" "E" "L" "O" "P"	considered to be of particular relevance earlier application or patent but published on or after the inter- national filing date document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) document referring to an oral disclosure, use, exhibition or other means	"X"	later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art document member of the same patent family	
Date of the actual completion of the international search		Date of mailing of the international search report		
10.01.2006		31.01.2006		
Nam	ne and mailing address of the ISA/JP	Auth	orized officer 5D 9847	
Japan Patent Office			Hajime Suzuki	
3-4-3, Kasumigaseki, Chiyoda-ku, Tokyo 100-8915, Japan		Telephone No. +81-3-3581-1101 Ext. 3551		

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INTERNATIONALSEARCHREPORT

International application No. PCT/JP2005/021501

Category*	Relevant to claim No.		
Category	Citation of document, with indication, where appropriate, of the relevant	in pussages	Actionality to claim 140.
Y A	JP 2004-158102 A (NEC CORPORATION) 200 Paragraph numbers 0015,0023-0024,010 17,19 (Family:none)		1-2,4,21-22, 24,37,40 3,23 5-20,25-36,3
		•	8-39,41-42
ζ	<u>US 2002/0097504 A1</u> (Kazuya Kitamura) 200 Paragraph numbers 0073,0077,0081,0226,	1-2,21-22,3	
_	JP 2002-140831 A & NL 1019266 A		3-4,23-24
A			5-20,25-36,3 8-39,41-42
ζ	JP 2004-206763 A (Hitachi Maxell 2004.07.22, Paragraph numbers 0019,00		1,3,21,23,3
<u>C</u>	Fig 1 (Family: none)		2,4,22,24
Ą			5-20,25-36, 8-39,41-42
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